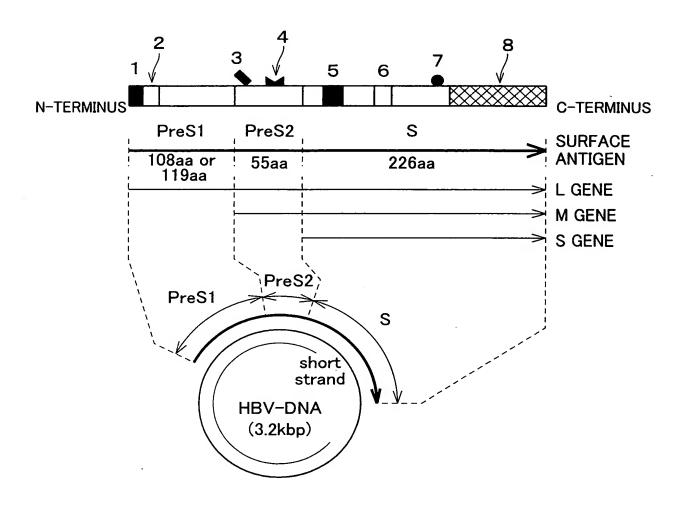
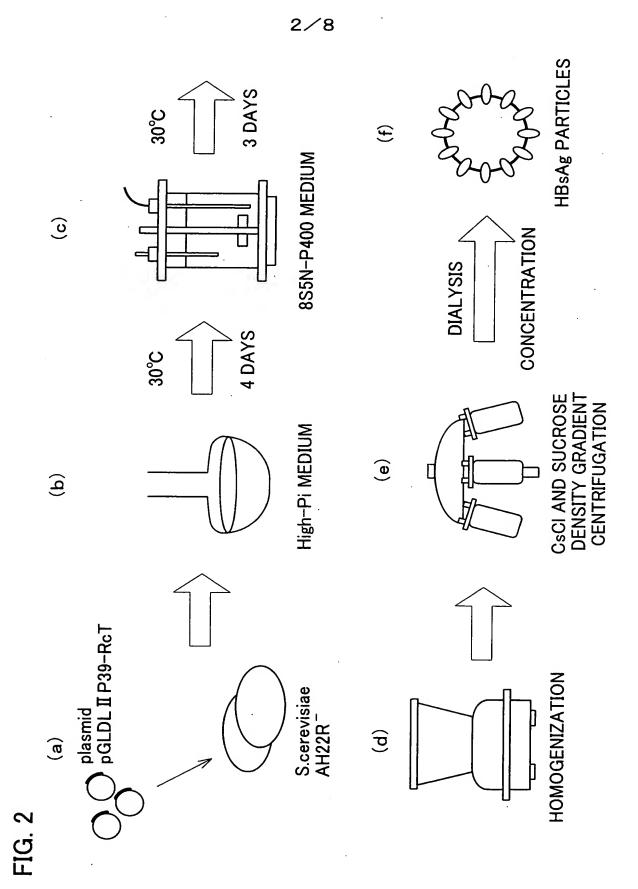
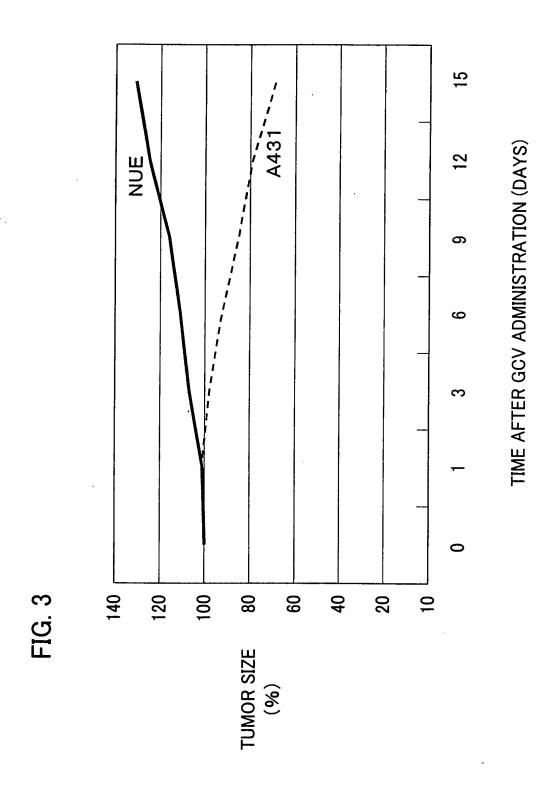
FIG. 1



- 1 PARTICLE FORMATION SUPPRESSING SITE
- 2 DIRECT RECEPTOR SPECIFIC TO HUMAN HEPATOCYTE
- 3 SUGAR CHAIN 1
- 4 INDIRECT RECEPTOR SPECIFIC TO HUMAN HEPATOCYTE (POLYMERIZED HUMAN SERUM ALBUMIN RECEPTOR)
- 5 TRANSMEMBRANE REGION 1
- 6 TRANSMEMBRANE REGION 2
- 7 SUGAR CHAIN 2
- 8 TRANSMEMBRANE REGION 3





## FIG. 4

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PROTEIN ATTACKING	Pancreatic type Rnases from vertebrates				
CYTOPLASMIC RNA SUCH	RNase 1 or Bovine RNase A				
AS RNase	Eosinophil derived neurotoxin				
	Eosinophil cationic protein				
	Liver RNase (RNase 4)				
	Angiogenin				
·	Bovine seminal RNase				
PROTEIN OBSTRUCTING	Frog Rnases (Onconase etc.)				
TRANSMEMBRANE	Streptolysin(Streptococcus pyogenes)				
	Cholesterol binding toxins (Streptococcus.				
	Bacillus. Clostridium. Listeria)				
	alpha-Toxin (Staphylococcus aureus)				
	Delta-Toxin (Staphylococcus aureus) and				
	melittin (Apis mellifera)				
	Aerotysin (Aeromonas hydrophila)				
	Escherichia coli hemolysin				
PROTEIN OBSTRUCTING	Cholera toxin (Vibrio cholerae)				
SIGNAL TRANSDUCTION	Heat-labile enterotoxins (Escherichia CollD				
	Pertussis toxin (Bordetella periussis)				
	Exoenzyme C3 (Clostridium botulinum)				
	Adenylate cyclase toxin (Bordetella sp.)				
	Anthrax edema factor (Bacillus anthracis)				
PROTEIN OBSTRUCTING	Diphtheria toxin (Corynebacterium diphtheriae)				
PROTEIN SYNTHESIS	Pseudomonas aeruginosa exotoxin A				
	Shiga toxins (Shigella dysenteriae serotype I,				
	Escherichia Coli)				
	Ricin (Ricinus communis)				
	Ribosome-inactivating proteins				
	alpha-Sarcin and related toxins (Aspergillus)				
PROTEIN DISTURBING	C2 toxin (Clostridium botulinum type C and D)				
CYTOSKELETON	Cytotoxic necrotizing factors (Escherichia coli)				
	Enterotoxin A and cytotoxin B (Clostridium				
	difficile)				
	ActA (Listeria monocytogenes)				
-	IcsA (Shigella flexneni)				
	Zonula occludens toxin (Vibrio cholerae)				
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## FIG. 5

	· · · · · · · · · · · · · · · · · · ·				
PROTEIN SUPPRESSING IMMUNITY OR INFLAMMATORY REACTION	Pyrogenic exotoxins (superantigens) (Staphylococcus aureus and Streptococcus				
	pyogenes)				
	Anthrax lethal toxin (Bacillus anthracis)				
REACTION	Leukocidins and gamma lysins (Staphylococcus sp.)				
PROTEIN DISTURBING MEMBRANE TRANSPORT	Tetanus neurotoxin (Clostridium tetani)				
	VAMP-specific botulinum neurotoxins				
	Botulinum neurotoxins type A and E (Clostridium botulinum)				
	Botulinum neurotoxin type C (Clostridium botulinum)				
	Vacuolating cytotoxin (Helicobacter pylonD				
PROTEIN DISTURBING	alpha-Scorpion toxins				
SODIUM CHANNEL	beta-Scorpion toxins				
	Excitatory insect selective neurotoxins from				
	scorpion venoms				
	Depressant insect selective neurotoxins from				
	scorpion venoms				
	mu-Conotoxins (Conus geographus)				
	mu-Agatoxins (Agelenopsis aperta)				
	Anthopleurin-AB, and -C (anemone toxin)				
	Anemone toxins (type II)				
	Calitoxins				
PROTEIN DISTURBING POTASSIUM CHANNEL	Kaliotoxin				
POTASSIUM CHANNEL	Scyllatoxin (Leiurus quinquestriatus hebraeus)				
	Apamin (honey bee Apis mellifera)				
	MCD peptide (honey bee Apis mellifera)				
	Charybdotoxin and iberiotoxin (Leiurus				
	quinquestriatus var. hebraeus and Buthus tamul us)				
	Margatoxin, noxiustoxin, and kaliotoxin (Centruroides				
	margaritatus. Centruroides noxius, Androctonus				
	mauretanicus)				
	Dendrotoxins (Dendroaspis species)				
	Sea anemone potassium channel toxins				

FIG. 6

PROTEIN DISTURBING CALCIUM CHANNEL	Omega-Conotoxins (Conus spp.)				
	Omega-Agatoxins (Agelenopsis aperta)				
	Omega-Grammotoxin SIA (Grammostola				
•	spatulata Chilean pink tarantula)				
	Hololena toxin (Hololena curta)				
·	PLTXII (Plectreurys tristes)				
	Calciseptine (Dendroaspis polylepis)				
	Calcicludine (Dendroaspis angusticeps)				
	beta-Leptinotarsin-h				
	Taicatoxin (Oxyuranus scutelatus scutelatus)				
PROTEIN DISTURBING ACETYLCHOLINE RECEPTOR	alpha-Bungarotoxin (Bungarus multicinctus)				
	alpha-Cobratoxin (Naja kaouthia)				
	Erabutoxins (Laticauda semifasciata)				
	Toxin alpha ('Naja nigricollis' )				
	kappa-Bungarotoxin (Bungarus multicinctus)				
	alpha-Conotoxins (Conus spp.)				
	Snake toxins against muscarinic acetylcholine receptors				
	Muscarinic toxin-1~-5, -7, m1-toxin from green mamba (Dendroapsis angusticeps)				
	Muscarinic toxin-alpha, -beta from black mamaba (Dendroapsis polylepis)				
PROTEIN DISTURBING RYANODINE RECEPTOR CALCIUM ION CHANNEL	Helothermine (Heloderma horridum horridum)				

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# FIG. 7

PROTEIN DISTURBING PRE-SYNAPSE	beta-Bungarotoxin (Bungarus multicinctus)		
	Rattlesnake venom neurotoxins: crotoxin-related proteins		
	Ammodytoxins (Vipera ammodytes ammodytes)		
	Notexins (Notechis scutatus scutatus)		
	Textilotoxin (Pseudonaja textilis textilis)		
	Tai poxin		
	alpha-Latrotoxin (black widow spider)		
	alpha-Latroinsectotoxin (Latrodectus mactans tred ecimguttatus)		
	Pardaxin (Pardachirus marmoratus)		
	Palytoxin (Corals of the spp. Palythoa)		
	Equinatoxins (Actinia equina L., sea anemone)		
PROTEIN DISTURBING GLUTAMIC ACID RECEPTOR	Conantokins (Conus spp.)		

FIG. 8

		TIME AFTER GCV ADMINISTRATION							
		(DAYS)							
		0	1	3	6	9	1 2	1 5	
TUMOR SIZE	A 4 3 1	100	101	98	92	85	79	69	
(%)	NUE	100	101	106	111	116	125	131	

